

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/015238 A2

- (51) International Patent Classification⁷: **G01N 33/68**
- (21) International Application Number:
PCT/NL2004/000550
- (22) International Filing Date: 4 August 2004 (04.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03077492.1 8 August 2003 (08.08.2003) EP
- (71) Applicant (for all designated States except US): **Kreatech Biotechnology B.V.** [NL/NL]; Vlierweg 20, NL-1032 LG Amsterdam (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **TALMAN, Eduard, Gerhard** [NL/NL]; Havikskruidzoom 16, NL-2353 RV Leiderdorp (NL). **VEUSKENS, Jacky, Theo, Maria** [BE/BE]; Elf Novemberlaan 16, B-3500 Hasselt (BE). **O'FLAHERTY, Martina, Catherine** [IE/NL]; Markenburg 205, NL-2135 DZ Hoofddorp (NL). **VAN DER HOEVEN, Paulus, Cornelis, Joseph** [NL/NL]; Petuniasstraat 18, NL-3911 WJ Rhenen (NL).
- (74) Agent: **WINCKELS, J.H.F.**; Nieuwe Parklaan 97, NL-2587 BN Den Haag (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PLATINUM COMPLEXES FOR DIFFERENTIAL MASS LABELING

(57) Abstract: The invention relates to the use of a platinum complex for creating a defined shift in the molecular mass of said entity in order to facilitate mass spectrometric analysis of said entity, to methods for rendering chemical or biological entities distinguishable by mass spectrometry as well as to methods for mass spectrometric analysis of the chemical or biological entities. Further, the present invention relates to a set of at least two platinum complexes of different molecular mass, to platinum complexes comprising different stable isotopes, to chemical or biological entities obtained by a method of the invention and to a kit of parts supporting the use and/or methods of the invention



WO 2005/015238 A2

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/015238 A3

(51) International Patent Classification⁷: GOIN 33/84, 33/68

(21) International Application Number:
PCT/NL2004/000550

(22) International Filing Date: 4 August 2004 (04.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03077492.1 8 August 2003 (08.08.2003) EP

(71) Applicant (for all designated States except US): Kreatech Biotechnology B.V. [NL/NL]; Vlierweg 20, NL-1032 LG Amsterdam (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TALMAN, Eduard, Gerhard [NL/NL]; Havikskruidzoom 16, NL-2353 RV Leiderdorp (NL). VEUSKENS, Jacky, Theo, Maria [BE/BE]; Elf Novemberlaan 16, B-3500 Hasselt (BE). OTLAHERTY, Martina, Catherine [IE/NL]; Markenburg 205, NL-2135 DZ Hoofddorp (NL). VAN DER HOEVEN, Paulus, Cornelis, Joseph [NL/NL]; Petuniasstraat 18, NL-3911 WJ Rhenen (NL).

(74) Agent: WINCKELS, J., H., E; Vereenigde, Johan de Witlaan 7, NL-2517 JR Den Haag (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

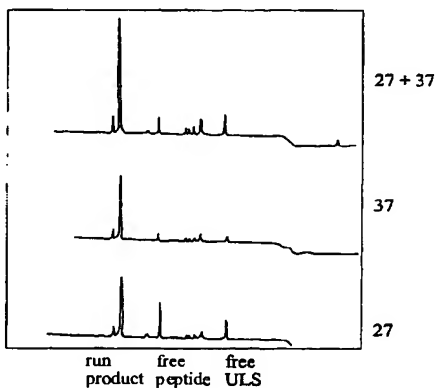
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: PLATINUM COMPLEXES FOR DIFFERENTIAL MASS LABELLING



HPLC Of LWMR peptide labeled with monofunctional ULS-dO- BOC (37) and monofunctional ULS-d4- BOC (27) and as a mixture Absorbance was at 220nm on a CIS (4.6mm) 5u column

(57) Abstract: The invention relates to the use of a platinum complex for creating a defined shift in the molecular mass of said entity in order to facilitate mass spectrometric analysis of said entity, to methods for rendering chemical or biological entities distinguishable by mass spectrometry as well as to methods for mass spectrometric analysis of the chemical or biological entities. Further, the present invention relates to a set of at least two platinum complexes of different molecular mass, to platinum complexes comprising different stable isotopes, to chemical or biological entities obtained by a method of the invention and to a kit of parts supporting the use and/or methods of the invention

WO 2005/015238 A3



(88) Date of publication of the international search report:
19 January 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.